

WE'RE PRO

CROP HEALTH

BCA AG TECH CROP HEALTH DIVISION



Integrating Science and Technology to Improve Your Bottom Line.

- Hybrid Selection and Placement
 - Help analyze previous yields to help select appropriate hybrids. An unbiased approach must be taken to select hybrids that are most suited for specific farms, fields, soil types, and management practices. Hybrid selection should be based on previous yield data, hybrid yield trials, and sound economics. Contact with representatives from all seed companies must be maintained to deliver the most current and unbiased advice on hybrids. Scouting throughout the territory and communication amongst consultants will also provide a large database of knowledge on hybrids, common problems amongst varieties, and performance of hybrids.
- Fertilizer Recommendations
 - Fertilizer recommendations will be written based on soil sample results and customized to fit a grower's needs. This means that recommendations will be based on a variable rate application (VRA) unique to every field. That level of accuracy cannot be obtained by every grower and is unorthodox when purchasing bulk fertilizer. In order to compensate for this, fertilizer recommendations will start as a VRA unique to every field but will then be blended based on the most convenient way to purchase fertilizer. This could be based on prepay methods, field proximities, or application timing. Recommendations must then also be adjusted to whether or not the grower actually has VRA capabilities. Additional fertilizers such as liquid nitrogen or anhydrous ammonia must also be considered in fertilizer planning.
- Pesticide Recommendations
 - Pesticide recommendations based on management practices, new technologies, and previous year performance. Includes, but not limited to herbicide (pre-plant, pre-emerge, post), insecticide (based on pressures observed during in season scouting), and fungicides.
- Planting Rx (Limited)
 - Every acre is unique. Variable-rate seeding prescriptions enable you to plant the optimum number of seeds for each acre, ensuring you get optimum value from the genetics you pay for.

Variable Rate Planting Requirements

- At least three years of quality yield data. (Years with extreme conditions should be excluded)
- At least three years of fertility data. (No sampling data older than three years.)
- RTK elevation profiles for fields.
- Soil type maps with soil properties.
- Planting maps.
- Hybrid inventory.
- Fertilizer program outline.
- Three year meteorological data.

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- Spring Operations Support
 - Management Practices
 - Evaluate tillage practices, planting dates, soil conditions, and other conditions that might affect crop performance.
 - Field Conditions
 - Monitor soil and weather conditions to set up the crop for a successful growing season.
 - Planting Support
 - Logistic and labor support on as needed/available basis.
- Scouting
 - Pre-Plant Evaluations
 - Evaluate tillage practices, planting dates, soil conditions, and other conditions that might affect crop performance.
 - Emergence
 - Determine plant vigor, seedling health, and planter issues.
 - Stand Evaluations
 - Stand counts, replant considerations.
 - Seedling to Early Vegetative Growth
 - Monitor plant disease, nutrient deficiencies, pest pressure, and other observations.
 - Tissue Analysis
 - In season tissue analysis for problem areas, test areas, product evaluation.
 - Nitrate Testing
 - Monitor soil nitrate levels and provide recommendations for nitrogen application.
 - Pest Management
 - Determine in season needs for pesticides based off of field scouting observations.
 - Aerial Imagery
 - Use UAV to capture real color, NIR, and NDVI images, as well as provide images for trial evaluation and scouting needs.
 - Late Season Hybrid Performance Checks
 - Notes on plant health, dry-down, ear formation, and grain quality. Notes will be used for hybrid selection the following year.
- Harvest Operations Support
 - Hybrid Maturity Monitoring
 - Track grain moisture to assist harvest operations.
 - Yield Monitor Calibration
 - Provide weigh wagon for calibration of equipment.
 - Stalk Nitrate Testing
 - Collect fall stalk nitrate tests to evaluate nitrogen program.

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- Soil Sampling
 - Maximum yield is built from the ground up; starting below the soil surface. A comprehensive consulting plan must include a thorough knowledge of the soil. A database will be collected for all acres that include topography, soil type, internal and external drainage, soil management practices, soil nutrient levels, soil pH and important morphological characteristics pertinent to production agriculture. Soil sampling should be done on all acreages at least once every three years to provide the most current information. Sampling should be done based on soil type and management zones, or at the very least, on five acre grids.
- Season End Summary Report and Analysis
 - Season-end precision crop reports help you track agronomic performance from year to year. Plus, online access puts planting and yield data at your fingertips.
- Data Management
 - Pre-Season Prep
 - Collecting precise data starts with a precise monitor. Before each planting season, we will populate your precision monitors with current info so you're on track before the first seed is planted.
 - Precision Safe Deposit Box
 - Valuables must be protected and that includes your precision data. Your AgriVault dashboard gives you a secure and permanent home for your precision data. It's only accessible to you and your personally chosen precision ag team.

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Benjamin Flansburg: (585) 356-2751
 Josh Carpenter: (585) 356-6135
 Amanda Spence: (585) 315-5910
 Chris Flansburg: (585) 409-7540